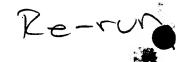
K. Carlson



1653

age 1 of 7

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PATENT APPLICATION: US/09/744,314

TIME: 09:33:34

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        GUEGLER, Karl J.
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        AZIMZAI, Yalda
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         PATTERSON, Chandra
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/744,314

DATE: 11/26/2002 TIME: 09:33:34

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63		T1 2 -	C1	m\	т	260	C1 -	mb .c	T 0.11	700	265	Tou	Λαρ	Cvic	т10	270
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172 < 173 < 174 175 176 177 178 179 180 181 182 183 184 185 186 187	223>	OTHE SEQU Met 1 Met Asp Asn Leu Gln	ER IN JENCH Ala Asp Gly Pro Glu Ile Ser	NFORN Ser Ser Gly Thr Phe Met Pro	Asp Ile Cys Pro Leu Gly Ser	Ala 5 11e 20 Glu 35 Val 50 Glu 65 Pro 80 Gln 95	Ser Ala Pro Leu Leu Thr	His Gly Gly His Pro Ala Asn	Ala Thr Leu Leu Gln Ala His	Leu Lys Ala Ile Glu Tyr	Glu 10 Thr 25 Ser 40 Glu 55 Arg 70 Ile 85 Ser 100	Ala Gly Pro Asp Ala Lys	Ala Ala Leu Ala Glu Ala	Asp Ser Arg Leu Trp Ser	Leu Tyr Leu Leu Phe Asn	15 Ser 30 Met 45 Ala 60 Ser 75 Glu 90 Glu 105
172 < 173 < 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188	223>	OTHE SEQU Met 1 Met Asp Asn Leu Gln	ER IN JENCH Ala Asp Gly Pro Glu Ile Ser	NFORN Ser Ser Gly Thr Phe Met Pro	Asp Ile Cys Pro Leu Gly Ser	Ala 5 Ile 20 Glu 35 Val 50 Glu 65 Pro 80 Gln 95 Arg	Ser Ala Pro Leu Leu Thr	His Gly Gly His Pro	Ala Thr Leu Leu Gln Ala His	Leu Lys Ala Ile Glu Tyr	Glu 10 Thr 25 Ser 40 Glu 55 Arg 70 Ile 85 Ser 100 Glu	Ala Gly Pro Asp Ala Lys	Ala Ala Leu Ala Glu Ala	Asp Ser Arg Leu Trp Ser	Leu Tyr Leu Leu Phe Asn	15 Ser 30 Met 45 Ala 60 Ser 75 Glu 90 Glu 105 Ser
172 < 173 < 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189	223>	OTHE SEQU Met 1 Met Asp Asn Leu Gln Glu Thr	ER IN JENCH Ala Asp Gly Pro Glu Ile Ser Tyr	NFORM E: 5 Ser Gly Thr Phe Met Pro Leu Gln	Asp Ile Cys Pro Leu Gly Ser Glu	Ala 5 11e 20 Glu 35 Val 65 Pro 80 Gln 95 Arg 110	Ser Ala Pro Leu Leu Thr Val Leu	His Gly Gly His Pro Ala Asn	Ala Thr Leu Leu Gln Ala His Arg	Leu Lys Ala Ile Glu Tyr His Leu	Glu 10 Thr 25 Ser 40 Glu 55 Arg 70 Ile 85 Ser 100 Glu 115	Ala Gly Pro Asp Ala Lys Ala Gly	Ala Leu Ala Glu Ala Asp	Asp Ser Arg Leu Trp Ser Lys	Leu Tyr Leu Leu Phe Asn Glu	15 Ser 30 Met 45 Ala 60 Ser 75 Glu 90 Glu 105 Ser 120
172 < 173 < 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190	223>	OTHE SEQU Met 1 Met Asp Asn Leu Gln Glu Thr	ER IN JENCH Ala Asp Gly Pro Glu Ile Ser Tyr	NFORM E: 5 Ser Gly Thr Phe Met Pro Leu Gln	Asp Ile Cys Pro Leu Gly Ser Glu	Ala 5 Ile 20 Glu 35 Val 50 Glu 65 Pro 80 Gln 95 Arg 110 Val	Ser Ala Pro Leu Leu Thr Val Leu	His Gly Gly His Pro Ala Asn	Ala Thr Leu Leu Gln Ala His Arg	Leu Lys Ala Ile Glu Tyr His Leu	Glu 10 Thr 25 Ser 40 Glu 55 Arg 70 Ile 85 Ser 100 Glu 115 Asp	Ala Gly Pro Asp Ala Lys Ala Gly	Ala Leu Ala Glu Ala Asp	Asp Ser Arg Leu Trp Ser Lys	Leu Tyr Leu Leu Phe Asn Glu	15 Ser 30 Met 45 Ala 60 Ser 75 Glu 90 Glu 105 Ser 120 Gln
172 < 173 < 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191	223>	OTHE SEQUENCE ASP ASP ASP Glu Thr	ER IN JENCH Ala Asp Gly Pro Glu Ile Ser Tyr Ile	NFORN Ser Ser Gly Thr Phe Met Pro Leu Gln	Asp Ile Cys Pro Leu Gly Ser Glu Gln	Ala 5 11e 20 Glu 35 Val 65 Pro 80 Gln 95 Arg 110 Val 125	Ser Ala Pro Leu Leu Thr Val Leu Ser	His Gly Gly His Pro Ala Asn Ala Val	Ala Thr Leu Leu Gln Ala His Arg Leu	Leu Lys Ala Ile Glu Tyr His Leu Thr	Glu 10 Thr 25 Ser 40 Glu 55 Arg 70 Ile 85 Ser 100 Glu 115 Asp	Ala Gly Pro Asp Ala Lys Ala Gly Gln	Ala Leu Ala Glu Ala Asp Val	Asp Ser Arg Leu Trp Ser Lys Glu	Leu Tyr Leu Leu Phe Asn Glu Ala	15 Ser 30 Met 45 Ala 60 Ser 75 Glu 90 Glu 105 Ser 120 Gln 135
172 < 173 < 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192	223>	OTHE SEQUENCE ASP ASP ASP Glu Thr	ER IN JENCH Ala Asp Gly Pro Glu Ile Ser Tyr Ile	NFORN Ser Ser Gly Thr Phe Met Pro Leu Gln	Asp Ile Cys Pro Leu Gly Ser Glu Gln	Ala 5 11e 20 Glu 35 Val 65 Pro 61n 95 Arg 110 Val 125 Arg	Ser Ala Pro Leu Leu Thr Val Leu Ser	His Gly Gly His Pro Ala Asn	Ala Thr Leu Leu Gln Ala His Arg Leu	Leu Lys Ala Ile Glu Tyr His Leu Thr	Glu 10 Thr 25 Ser 40 Glu 55 Arg 70 Ile 85 Ser 100 Glu 115 Asp 130 Cys	Ala Gly Pro Asp Ala Lys Ala Gly Gln	Ala Leu Ala Glu Ala Asp Val	Asp Ser Arg Leu Trp Ser Lys Glu	Leu Tyr Leu Leu Phe Asn Glu Ala	15 Ser 30 Met 45 Ala 60 Ser 75 Glu 90 Glu 105 Ser 120 Gln 135 Gln
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172 < 173 < 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192	223>	OTHE SEQUENCE OF S	ER IN JENCH Ala Asp Gly Pro Glu Ile Ser Tyr Ile Glu	NFORN E: 5 Ser Gly Thr Phe Met Pro Leu Gln Leu	Asp Ile Cys Pro Leu Gly Ser Glu Gln Ile	Ala 5 11e 20 Glu 35 Val 65 Pro 61n 95 Arg 110 Val 125 Arg 140	Ser Ala Pro Leu Leu Thr Val Leu Ser Asp	His Gly Gly His Pro Ala Asn Ala Val	Ala Thr Leu Gln Ala His Arg Leu Glu	Leu Lys Ala Ile Glu Tyr His Leu Thr	Glu 10 Thr 25 Ser 40 Glu 55 Arg 70 Ile 85 Ser 100 Glu 115 Asp 130 Cys 145	Ala Gly Pro Asp Ala Lys Ala Gly Gln Leu	Ala Leu Ala Glu Ala Asp Val Glu	Asp Ser Arg Leu Trp Ser Lys Glu Gly	Leu Tyr Leu Leu Phe Asn Glu Ala His	15 Ser 30 Met 45 Ala 60 Ser 75 Glu 90 Glu 105 Ser 120 Gln 135 Gln 150

RAW SEQUENCE LISTING

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196	Ser	Arg	Thr	Ser		Glu	Thr	Gln	Lys		Asp	Leu	Met	Thr	
197	77 7	0	01	Ŧ	170	T	T	T	17- 1	175	Mad	C1	T	C1	180
198	Val	Ser	GLu	Leu	-	ьeu	Lys	Leu	vaı	190	мет	GIU	ьys	GIU	195
199	7	C1	C1-	C1	185	T	C1~	7\~~	Trro		C1.,	Clu	T 011	Lou	
200	Arg	GIU	GIH	GIU	200	гÀг	Gln	Arg	гуу	205	GIU	Giu	ьeu	ьeu	210
201	C1	Ton	7. ~~	uio		T v.c	Ile	Tuc	Wal		Glu	Lou	Glu	Aen	
202 203	GIU	Leu	Arg	urs	215	гуэ	116	ьуз	Val	220	GIU	пец	GIU	ASII	225
204	Λκα	Λen	Gln	Tur		Trn	Lys	T.e.11	Lvs		Thr	T.vs	Δla	Glu	
205	ALG	ASII	GIII	1 y 1	230	пр	шуз	цси	цyS	235	1111	Lys	7114	OIU	240
206	Δla	Gln	Len	Gln		Gln	Val	Ala	Len		Asp	Ala	Glu	Ile	
207	111.0	0111	DC u	0211	245	0111		1120	200	250					255
208	Ara	Leu	His	Ser		Leu	Ser	Ara	Thr		Ala	Leu	His	Ser	
209	5				260			,		265					270
210	Ser	His	Thr	Glu	Arq	Asp	Gln	Glu	Ile	Gln	Arg	Leu	Lys	Met	Gly
211					27 5	•				280	_		-		285
212	Met	Glu	Thr	Leu	Leu	Leu	Ala	Asn	Glu	Asp	Lys	Asp	Arg	Arg	Ile
213					290					295					300
214	Glu	Glu	Leu	Thr	Gly	Leu	Leu	Asn	Gln	Tyr	Arg	Lys	Val	Lys	Glu
215					305					310					315
216	Ile	Val	Met	Val		Gln	Gly	Pro	Ser	Glu	Arg	Thr	Leu	Ser	
217					320					325					330
218	Asn	Glu	Glu	Glu		Glu	Gly	Gly	Phe		Lys	Trp	Asn	Ala	
219				_	335				_	340			_	-	345
220	Asn	Lys	Asp	Pro		Glu	Leu	Phe	Lys		GLu	Met	Pro	Pro	
221	_	_	~		350	** 3	01	D	D	355	т	D	C1	T	360
222	Cys	Ser	Ser	Pro		vaı	Gly	Pro	Pro		Leu	Pro	GIN	гàг	375
223	Т о	Clu	mb ~	71 ~~ ~	365	Cln	Lys	T	Ton	370	Cvc	Sor	LOU	Glu	
224 225	ьeu	GIU	1111	Arg	380	GIII	пуз	пуз	пеп	385	Суз	Ser	пец	GIU	390
226	T.e.11	Δra	Ser	Glu		Val	Asp	Ĭ.vs	Cvs		Asp	Glv	Asn	Gln	
227	пси	nrg	DCI	Oru	395	Val	1155	БуБ	Cys	400	пор	011	11011	0111	405
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240	Asn	Pro	Lys	Gly		Lys	Lys	Phe	Trp		ГÀЗ	Пе	Arg	Arg	Thr
241	0.3	~	6 3	70	500	m.	m ì	70	ml-	505	03 .	Mot	70 7 -	C1	510 Dho
242	Gln	Ser	GLy	Asn		Tyr	Thr	Asp	Tnr		стА	мет	ΑΙα	GIU	
243	70	20	61	C1 -	515	70	- ה	m L	70.7	520	Desc	7	T 01-	Con	525
244	Arg	arg	СΤΆ	стλ	ьeu	Arg	Ala	ınr	ата	стЛ	Pro	Arg	ьeu	ser	Arg

VERIFICATION SUMMARY

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